

मजबूत कोंक्रीट
अटूट विश्वास!



RMIX® Ganesha

Fiber Reinforced Concrete

Ganga – Self Compacting Concrete

Sudarshan – Concrete Without Cracks & Waterproof

Ganesha – Fiber Reinforced Concrete

Pawan - Strength Meets Lightness

Hanuman - Durable Concrete

Lakshman - Temperature Controlled Concrete

Shankara - Concrete that fights with Corrosion





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Fiber-reinforced concrete is usually **Portland cement concrete** with either metallic or **polymer fibres**. The fibres are useful in providing greater resistance to **plastic shrinkage** cracking and service-related cracking. Fibers are not intended as primary reinforcing. The fibres are added during concrete production. They are useful in shotcrete and in thin overlays that are not sufficiently thick to accommodate reinforcing bars, and they have good resistance to impact, vibration, and blasts. The disadvantages of fibre-reinforced concrete are the reduced workability and the possibility of corrosion stains if the fibres are exposed at the surface.

Variants

Steel fiber reinforced
concrete (SFRC)

Glass fiber reinforced
concrete (GFRC)

Synthetic fiber
reinforced concrete

Polypropylene
Fibers

Nylon Fibers

Advantages

- ✓ Increased Tensile Strength
- ✓ Reduced Cracking
- ✓ Enhanced Freeze-Thaw Resistance
- ✓ Reduced Permeability
- ✓ Improved Impact and Abrasion Resistance
- ✓ Improved Fatigue Resistance
- ✓ Increased Ductility
- ✓ Enhanced Fire Resistance



RMIX®
Ganesha

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What makes us Different

RMIX Ganesha

Normal Cement Concrete

Higher Durability

Lower Durability

Help to protect from corrosion

Does not help to protect from corrosion

Lighter (Materials)

Heavier (Materials)

More expensive

Economical

With the same of volume, the strength is greater

With the same of volume, the strength is less

Higher Workability

Less Workability as compare to FRP

Key Applications



Flooring
pavement



Tunnel
Construction



Burner
blocks



Low cement
castable.



Fire clays



Torpedo
ladle



Building
construction



Highway
construction



Bridge
construction



Dam
construction

SPECIFICATION

- **Steel fibers** shall conform to **ASTM A820/A820M, Type I, cold-drawn wire**, with a **length of 50mm** and **diameter of 0.9mm**
- The concrete shall contain **0.9 kg/m³ of polypropylene fibers**, with a **length of 19mm** and **diameter of 0.032mm**
- The **fiber-reinforced concrete** shall have a residual flexural strength of at least **2.0 MPa** at a deflection of **L/600**, when tested according to **ASTM C1609**



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Strengthening...
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ON-TIME CONSISTENTLY
FOR 7 YEARS.**

RMIX
Vadod

Vesu, Sachin, Hojiwala Industrial,
Udhana, Pandesara/Vadod, Althan

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Hazira

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RMIX
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Navsari, Bardoli, Palsana

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